

CLAIM AMENDMENTS

1. (Currently Amended) A piston pump for transporting a highly viscous ~~media~~ medium from a storage reservoir to a spray gun, the pump ~~having~~ comprising a differential piston positioned in a cylindrical housing and ~~translationally~~ axially drivable, the pump having a first pressure chamber connected to a second pressure chamber via a connecting line having a check valve therein, the pump ~~further~~ being adapted to be connected with a storage reservoir via an inlet valve assembly,

~~characterized by the wherein said differential piston having~~
is connected to a dipping piston that adapted to dips into the reservoir of medium to be transported, the dipping piston being attached to an aligned, protruding a piston rod, extending from said differential piston;

wherein a pass-through of the piston rod from the first pressure chamber to the dipping piston is closed fluid-tight by at least one seal,

and ~~having~~ a transport line ~~in the vicinity of~~ disposed proximate the pass-through of the piston rod, said transport line and the dipping piston being adapted for insertion into the storage reservoir, the dipping pistons being adapted to push the medium through said transport line.

2. (Currently Amended) The piston pump ~~as recited in~~
accordance with Claim 1, characterized in that the wherein said
transport line is positioned, at least in part, concentric to the piston rod.

3. (Currently Amended) The piston pump ~~as recited in~~ accordance with Claim 1, characterized in that the wherein said transport line is, at least in part, laterally offset from the piston rod.

4. (Currently Amended) The piston pump ~~as recited in~~ accordance with Claim 1, characterized by the fact that the pass-through of the piston rod has at least a portion of the transport line provided in a connecting piece connected with the housing of the differential piston, and wherein an extension piece receives- extends from said transport line and houses the dipping piston and is ~~attached to the connecting piece~~ insertable into the storage reservoir.

5. (Currently Amended) The piston pump ~~as recited in~~ accordance with Claim 4, characterized by wherein the inlet valve ~~being~~ is located upline from the first pressure chamber.

6. (Currently Amended) The A piston pump as recited in- ~~claim 5~~ for transporting highly viscous media from a storage reservoir to a spray gun, the pump having a differential piston positioned in a cylindrical housing and translationally drivable, the pump having a first pressure chamber connected to a second pressure chamber via a connecting line having a check valve therein, the pump further being connected with a storage reservoir via an inlet valve, wherein the differential piston is provided with a dipping piston that dips into the medium to be transported, the dipping piston being attached to an aligned piston rod, wherein a pass-through of the piston rod from the first pressure chamber is closed fluid-tight by at least one

seal, and wherein a transport line is disposed in the vicinity of the pass-through of the piston rod;

wherein the pass-through of the piston rod is provided with at least a portion of said transport line provided in a connecting piece connected with the housing of said differential piston, and wherein an extension piece receives the dipping piston and is attached to the connecting piece;

wherein the inlet valve is located upline from the first pressure chamber; and

wherein the first pressure chamber is in the connecting piece.

7. (Currently Amended) The piston pump ~~as recited~~ in accordance with Claim 1 wherein the inlet valve includes a ball ~~received~~ disposed in a cage through which fluid can flow and ~~in-which~~ wherein the ball is urged by a spring towards a valve seat.

8. (Currently Amended) ~~The A~~ piston pump ~~as recited in claim 1~~ for transporting highly viscous media from a storage reservoir to a spray gun, the pump having a differential piston positioned in a cylindrical housing and translationally drivable, the pump having a first pressure chamber connected to a second pressure chamber via a connecting line having a check valve therein, the pump further being connected with a storage reservoir via an inlet valve, wherein the differential piston is provided with a dipping piston that dips into the medium to be transported, the dipping piston being attached to an aligned piston rod, wherein a pass-through of the piston rod from the first pressure chamber is closed fluid-tight by at least one

seal, and wherein a transport line is disposed in the vicinity of the pass-through of the piston rod;

~~characterized by the fact that~~ and wherein the pass-through of the piston rod is provided in an internal partition of the housing, and ~~that the said~~ transport line is formed ~~in this area~~ by a plurality of openings in the internal partition, located concentric to the pass-through.

9. (Currently Amended) The piston pump ~~recited~~ in accordance with claim 8,

~~characterized by the fact that~~ wherein the inlet valve is formed by a sealing ring associated with the openings in the internal partition of the housing, and a pressure spring acting between the ring and the housing.

10. (Currently Amended) The A piston pump as recited in claim 1, for transporting highly viscous media from a storage reservoir to a spray gun, the pump having a differential piston positioned in a cylindrical housing and translationally drivable, the pump having a first pressure chamber connected to a second pressure chamber via a connecting line having a check valve therein, the pump further being connected with a storage reservoir via an inlet valve, wherein the differential piston is provided with a dipping piston that dips into the medium to be transported, the dipping piston being attached to an aligned piston rod, wherein a pass-through of the piston rod from the first pressure chamber is closed fluid-tight by at least one seal, and wherein a transport line is disposed in the vicinity of the pass-through of the piston rod;

wherein the dipping piston includes:

- a. a disk having openings therein and positioned in the extension piece and attached to the piston rod,
- b. a stop provided on the piston rod at a selected distance from the disk, and
- c. a cover mounted on the piston rod and movable between the stop and the disk, such that the openings provided in the disk are closed when the cover is proximate the disk and the openings are open when the cover is distal of the disk.

11. (Currently Amended) The piston pump ~~as recited in~~ accordance with claim 10,

wherein the disk ~~has~~ exhibits radial play with respect to the extension piece.

12. (Currently Amended) The piston pump ~~as recited in~~ accordance with claim 1, wherein the piston rod is attached to the differential piston by a connecting piece through which fluid can flow and which is attached to ~~the~~ said differential piston.

13. (Currently Amended) The piston pump ~~as recited in~~ accordance with claim 1, ~~characterized by the fact that~~ wherein the first pressure chamber ~~has~~ is provided with a volume of about 1.2 to 2.5 times a volume of the second pressure chamber.